APPENDIX A

Proposed Project Build Alternative Alignments

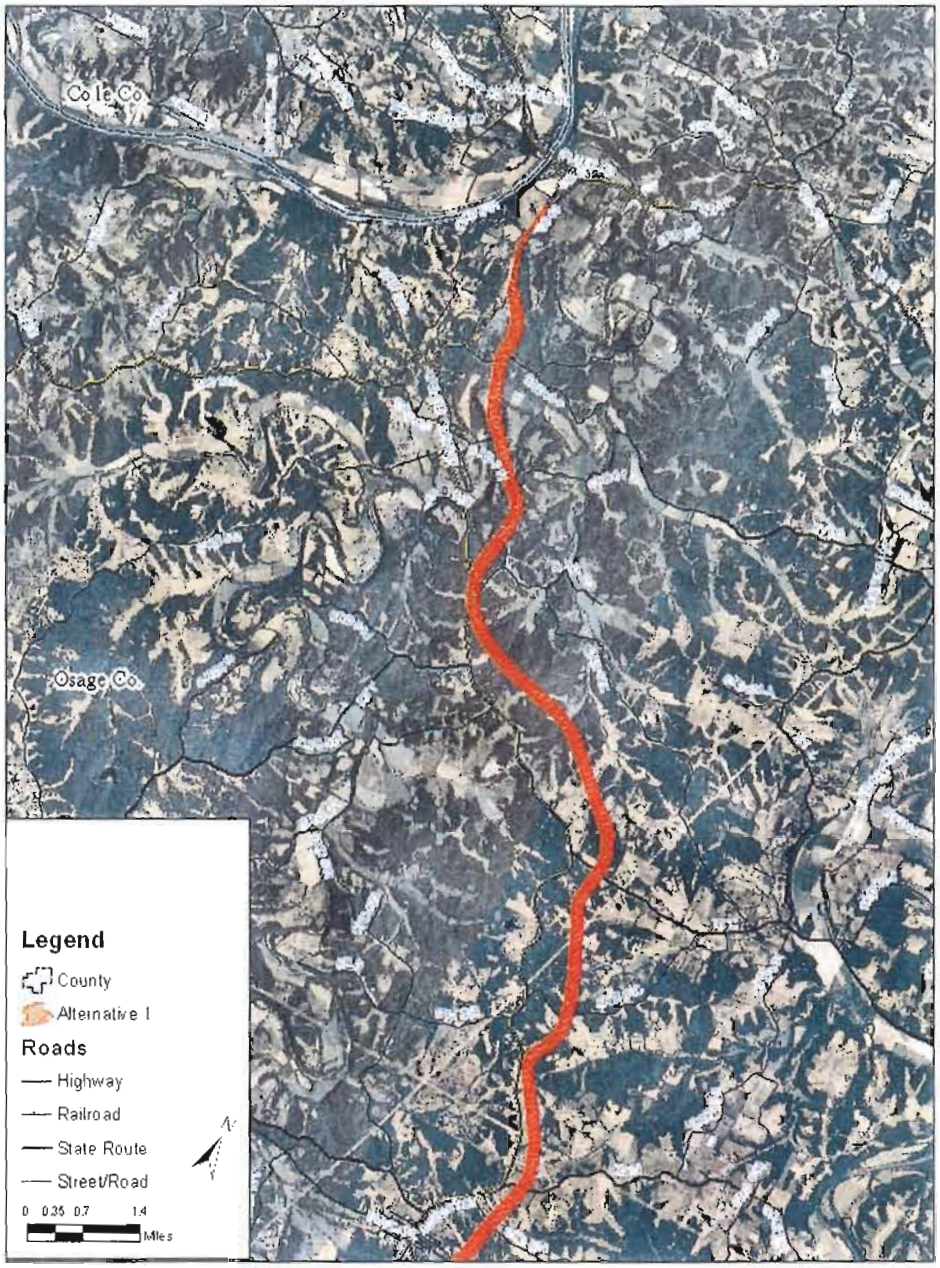


Figure A-1

Alternative 1 - North Portion

U S Route 63
Environmental Impact Statement

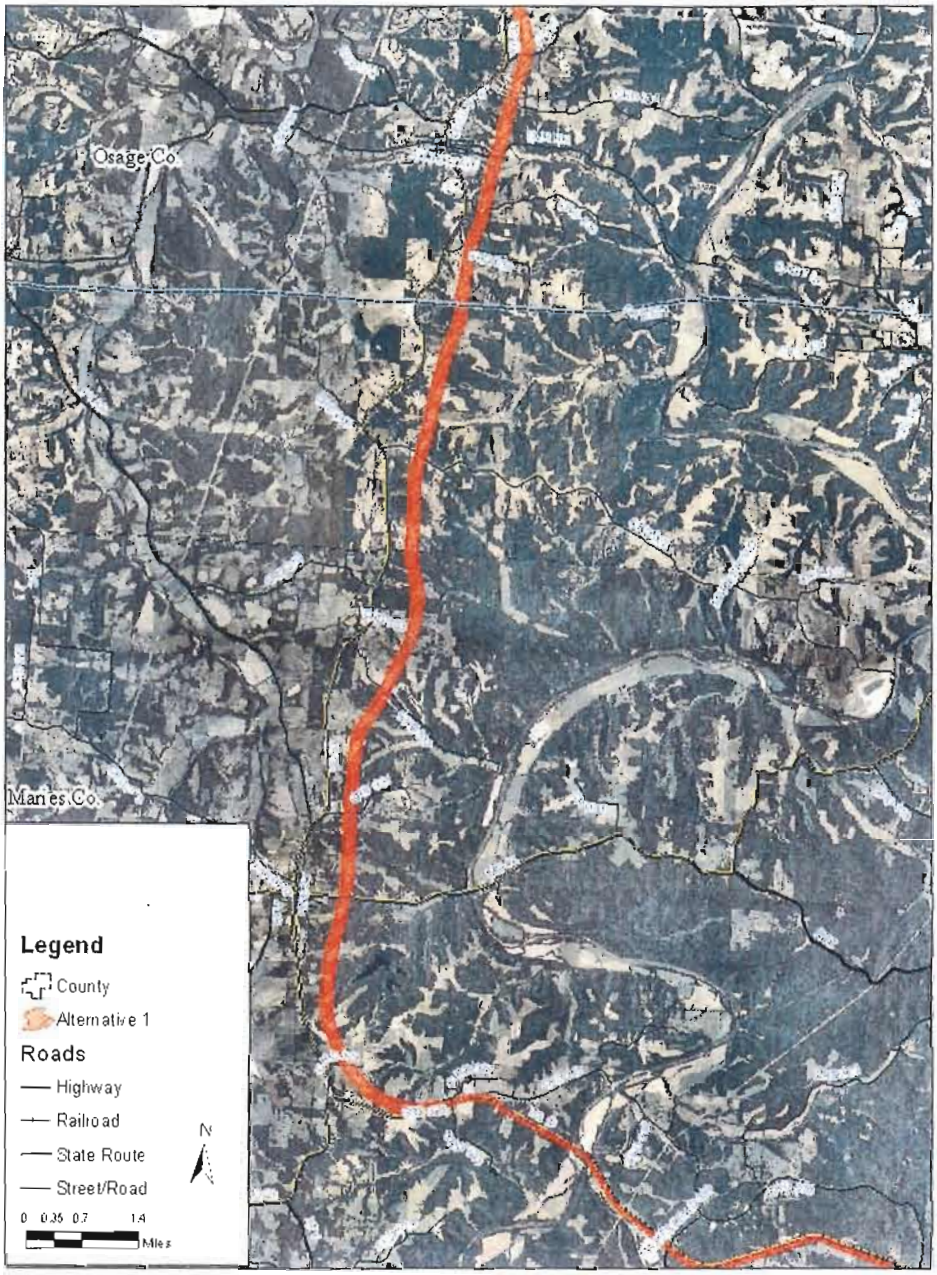


Figure A-2

Alternative 1 - Central Portion

U.S. Route 63
Environmental Impact Statement

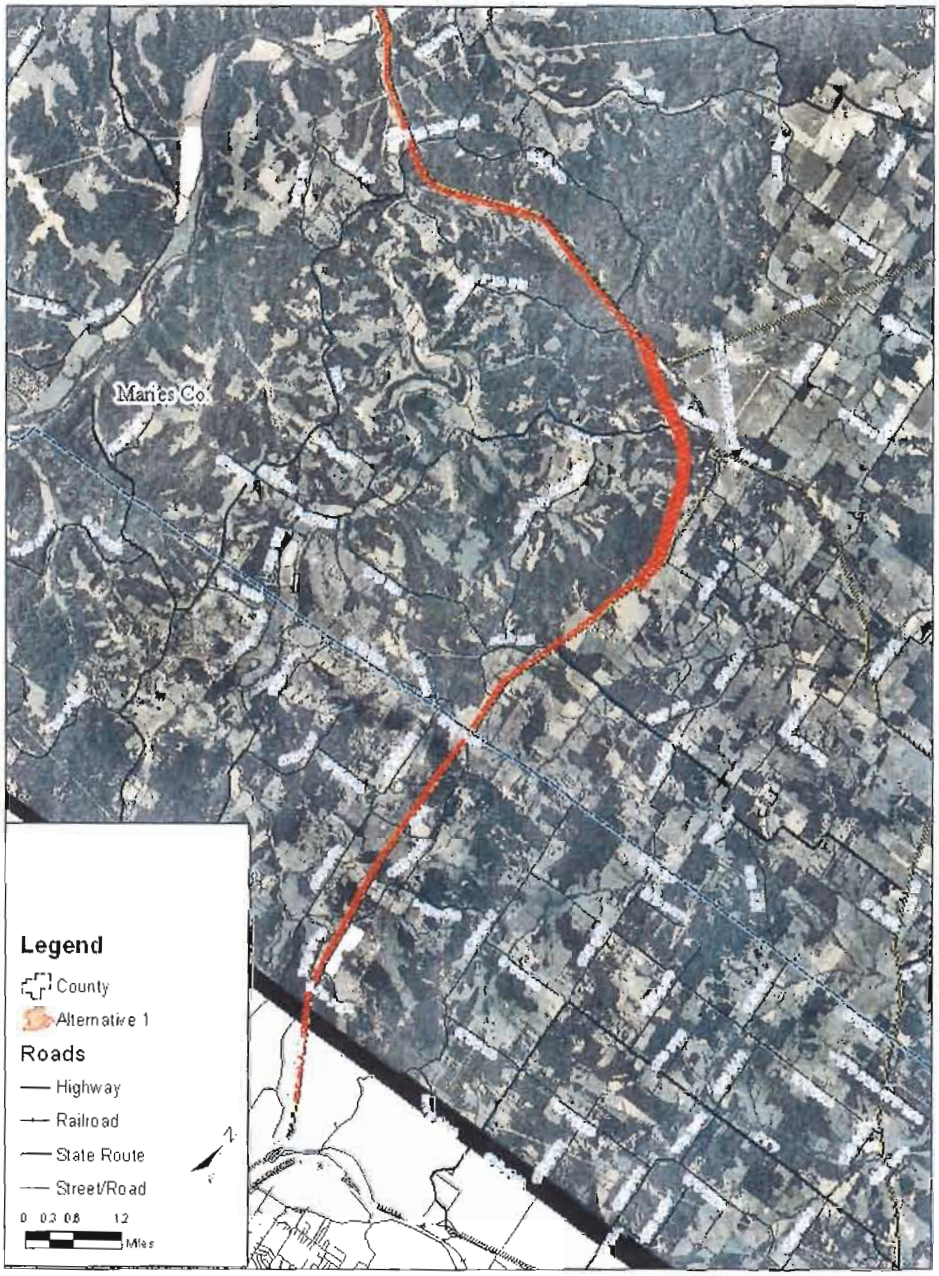


Figure A-3

Alternative 1 - South Portion

U S Route 63
Environmental Impact Statement

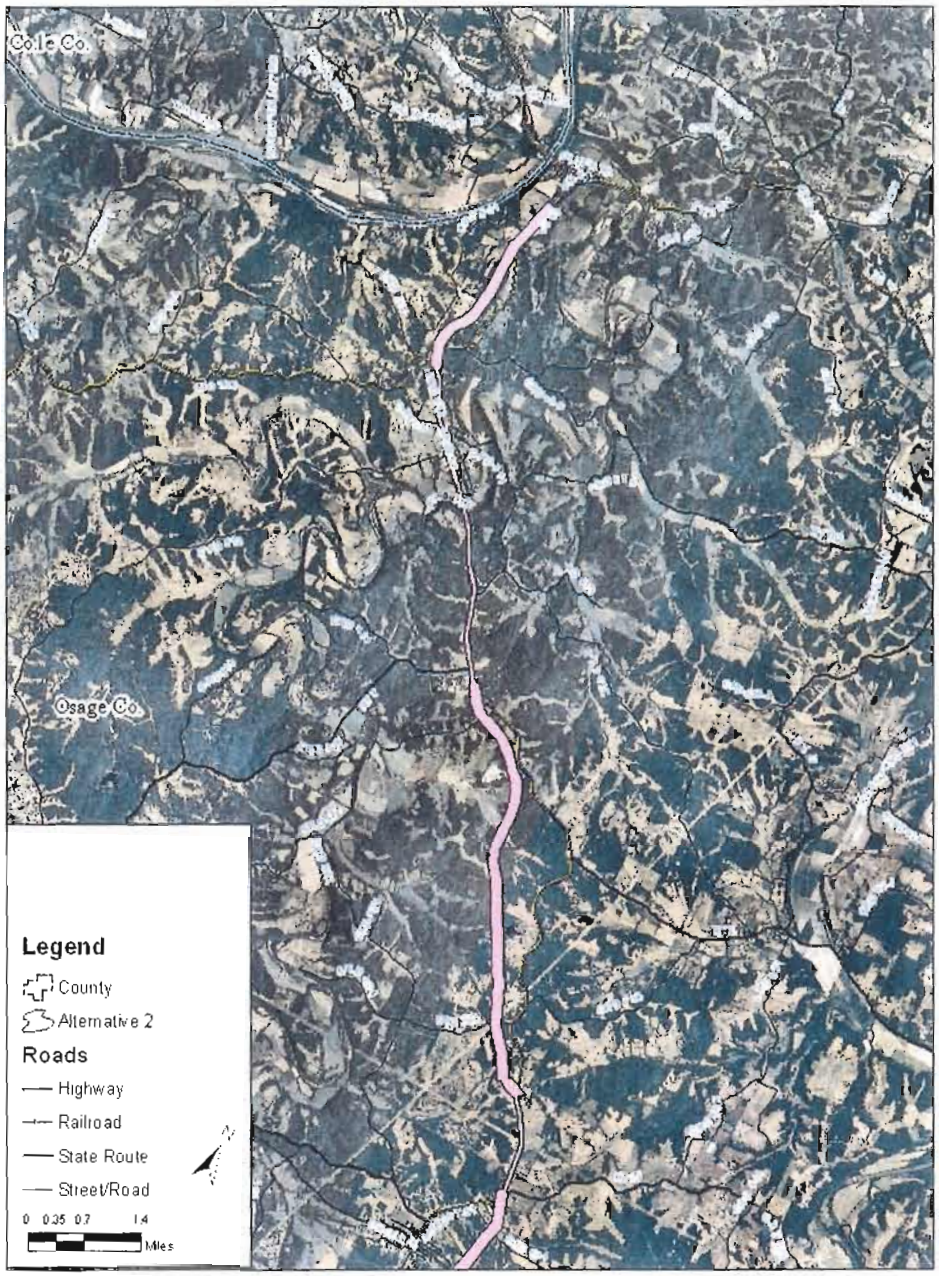


Figure A-4

Alternative 2 - North Portion

U.S. Route 63
Environmental Impact Statement

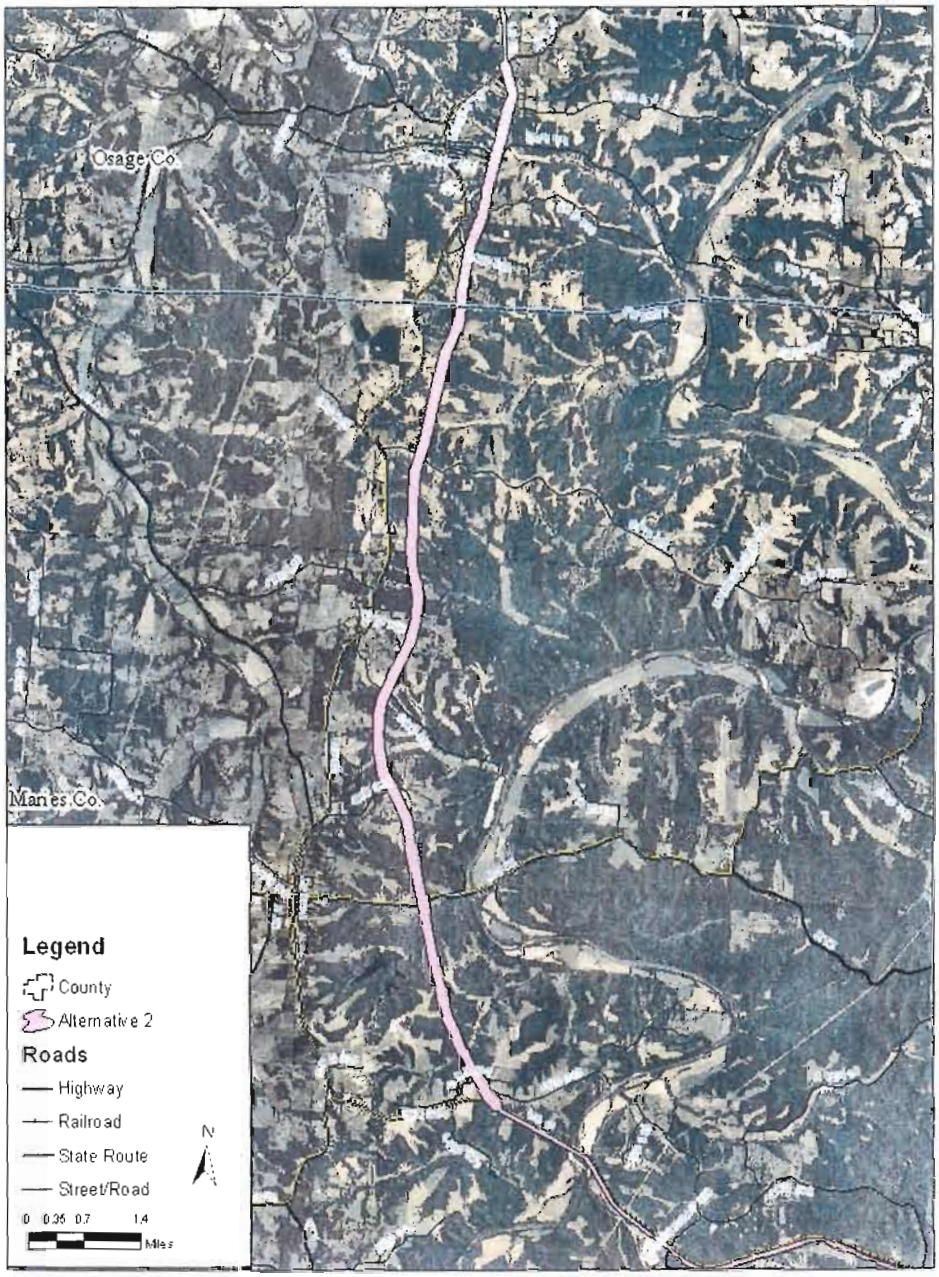


Figure A-5

Alternative 2 - Central Portion

U.S. Route 63
Environmental Impact Statement

Figure A-6

Alternative 2 - South Portion

U.S. Route 63
Environmental Impact Statement

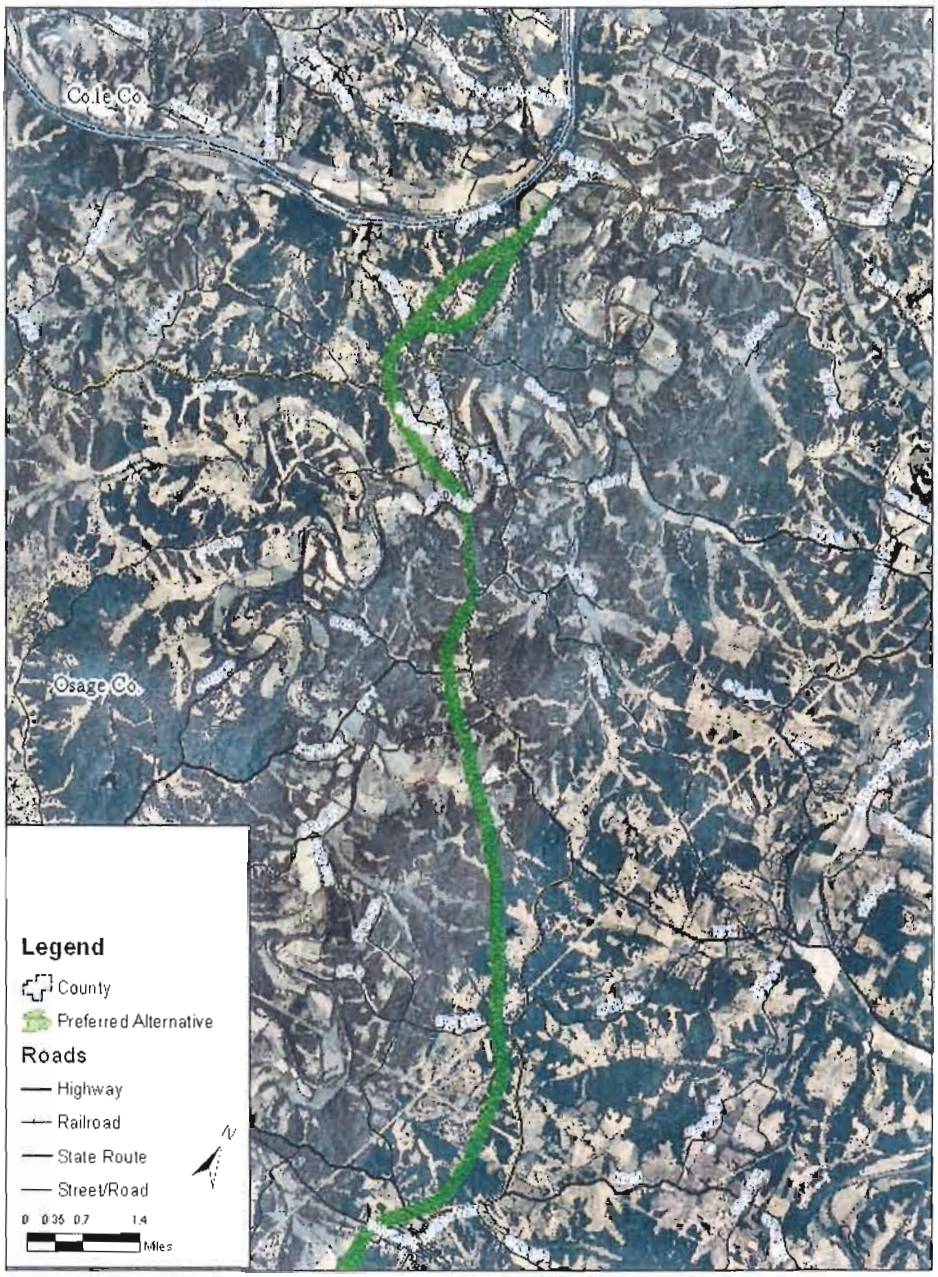


Figure A-7

Preferred Alternative - North Portion

U.S. Route 63
Environmental Impact Statement

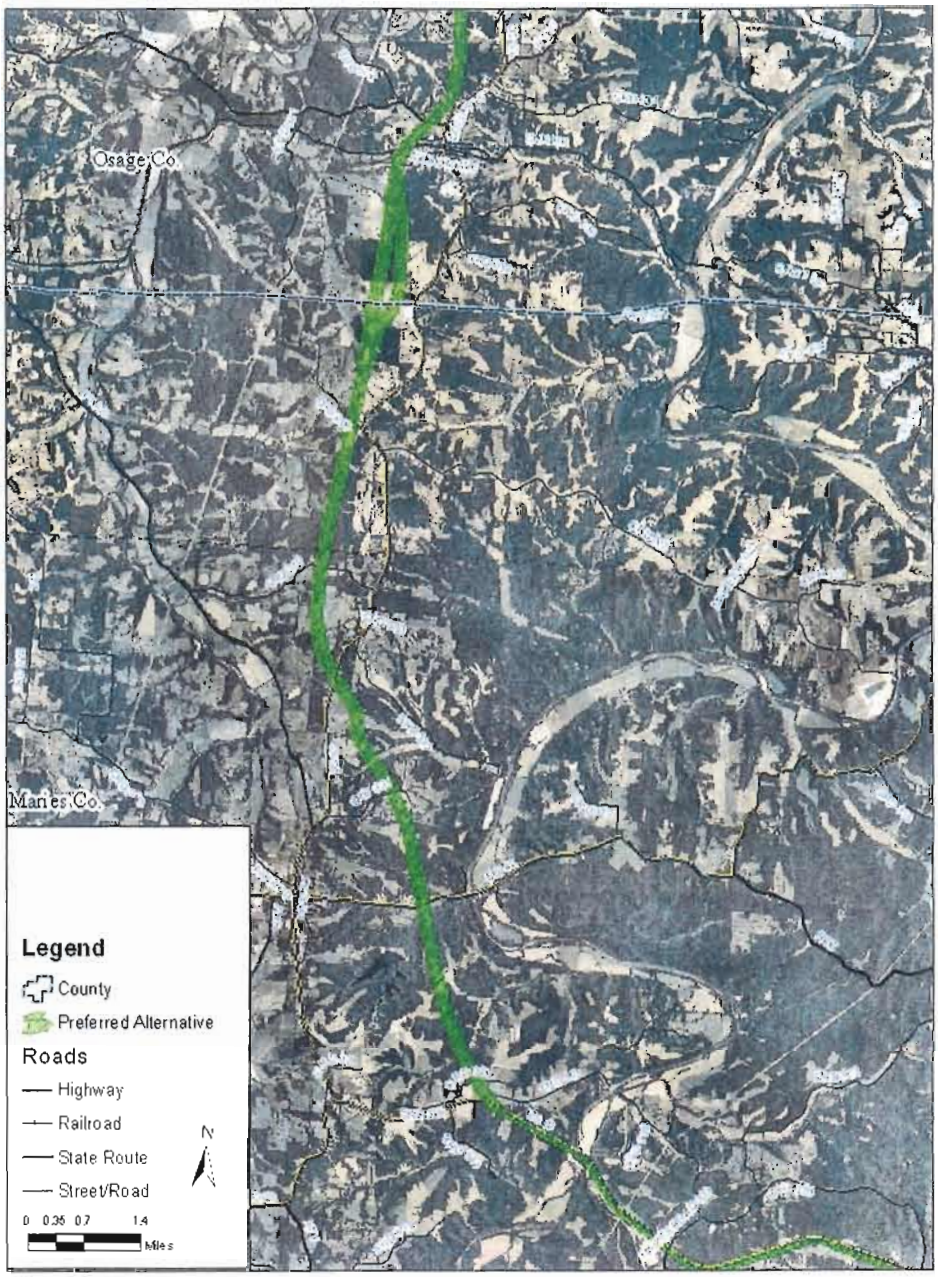


Figure A-8

Preferred Alternative - Central Portion

U.S. Route 63
Environmental Impact Statement

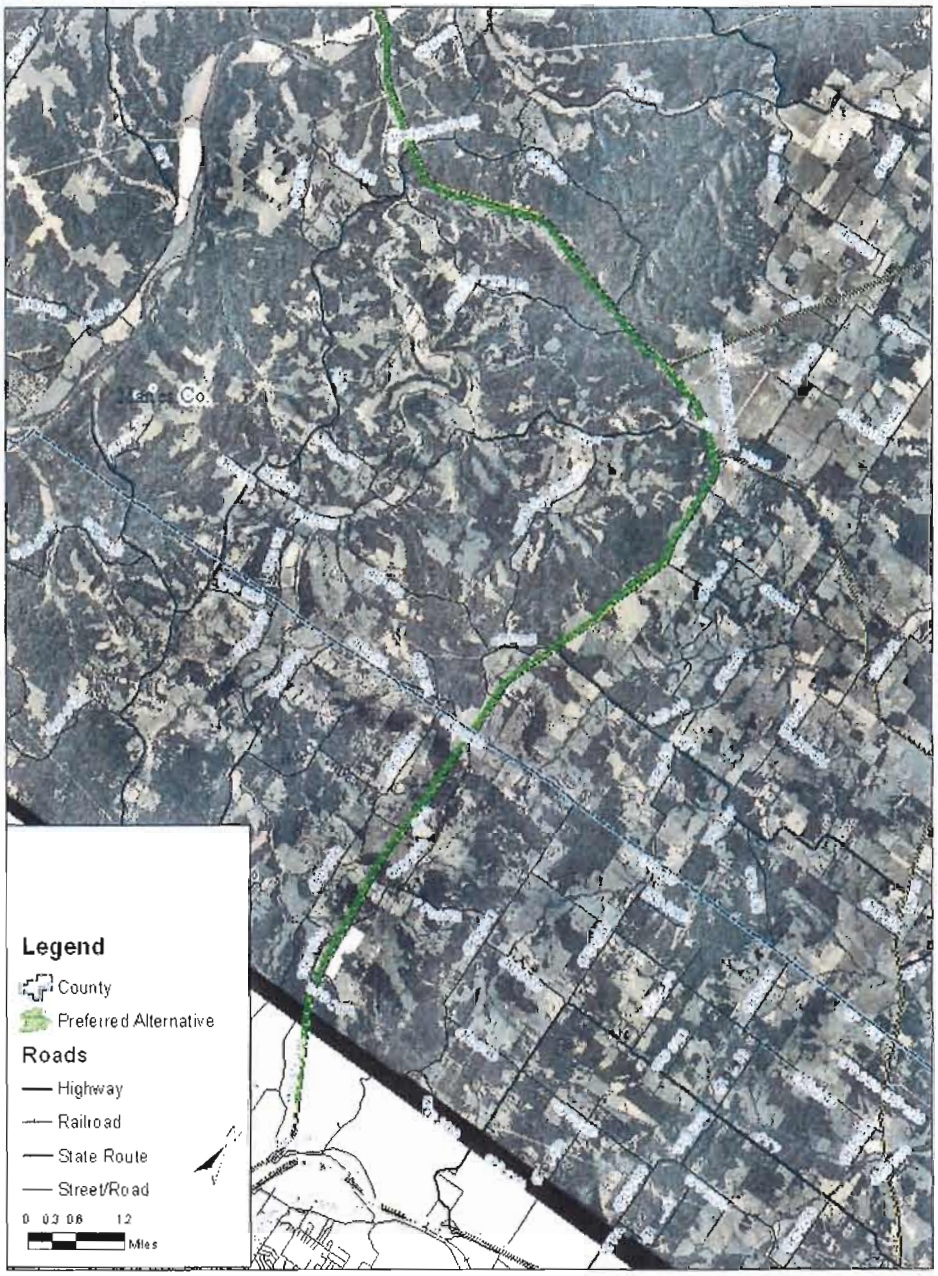


Figure A-9

Preferred Alternative - South Portion

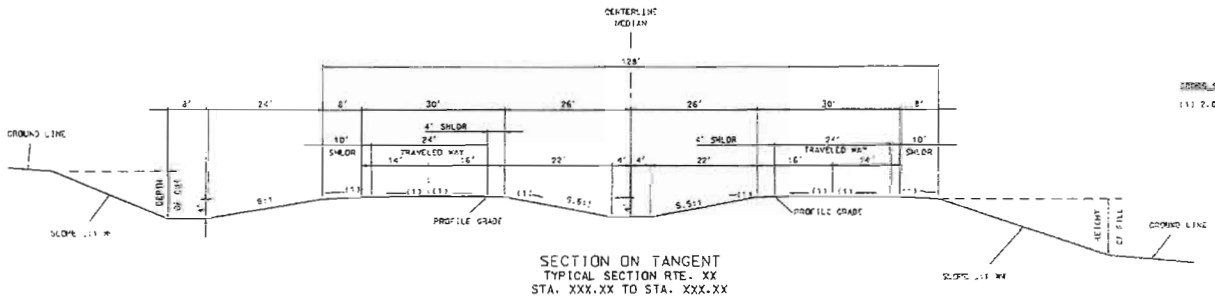
U.S. Route 63
Environmental Impact Statement

APPENDIX B

U.S. Route 63 Proposed Typical Cross Sections

EFFECTIVE 07-01-2002

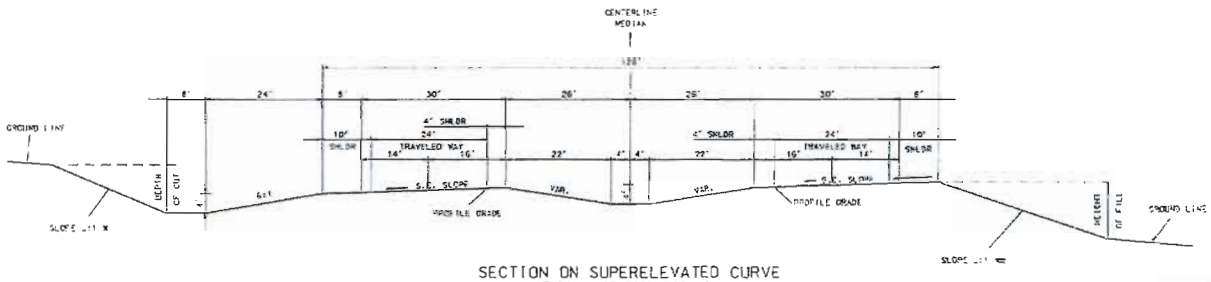
	MO		
JOB NO.			
PROJECT NO.			
COUNTY			DATE



SECTION ON TANGENT
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

DRAWN SLOPE
(1) 2.0%

SEE STANDARDS 203.21, 620.00 AND 609.40 FOR SHOULDER WIDENING.



SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

* BACKSLOPE DETERMINED BY SOIL SURVEY.

** THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

	D-611
FUNCTION	INTERSTATE/PRINCIPAL ARTERIAL
ADT	> 1700
TRAVELED WAY WIDTH	24'
ROADBED WIDTH	128'
FORESLOPE	6:1
DITCH	4'

APPENDIX C

Traffic Data

MoDOT Route 63 TNM Noise Screening Model Traffic Data Inputs - HDR Project # 79244

Future No-Build (2036) Traffic Volumes[1]

Segment ID	From	To	Posted Speeds (mph)[2]	Volume (AADT)[3]	Peak Hour Volume[4]	Peak Hour Autos	Peak Hour MTs[5]	Peak Hour HTs[5]
1	Northern Project Limits	Northern Westphalia City Limits	60	10,676	1388	1166	111	111
2	Northern Westphalia City Limits	Southern Westphalia City Limits	45	12,073	1569	1318	126	126
3	Southern Westphalia City Limits	Northern Freeburg City Limits	60	9,550	1242	1043	99	99
4	Northern Freeburg City Limits	Southern Freeburg City Limits	45	7,971	1036	870	83	83
5	Southern Freeburg City Limits	Northern Vienna City Limits	60	8,718	1133	952	91	91
6	Northern Vienna City Limits	Southern Vienna City Limits	45	9,971	1296	1089	104	104
7	Southern Vienna City Limits	MO Route 68	65	9,960	1295	1088	104	104
8	MO Route 68	Phelps County Line	65	9,584	1246	1047	100	100
9	Phelps County Line	Southern Project Limits	65	9,210	1197	1006	96	96

[1] Source: Missouri DOT No project-specific 2036 Build volumes available. Use these 2036 volumes for Build and No-Build conditions

[2] Note: Towns modeled at 45 mph based on field observations. Rural section posted speeds, as provided by Missouri DOT

[3] Source: Missouri DOT, *US 63 Osage, Maries & Phelps Counties 2036 Traffic Volumes*

[4] Source: Missouri DOT. Peak hour is 13% of AADT

[5] Source. Missouri DOT. 8% medium trucks; 8% heavy trucks.

Future Build Alternative (2036) Traffic Volumes[1 2]

Segment ID	From	To	Direction	Posted Speeds (mph)[3]	Volume (AADT)[4]	Peak Hour Volume[5]	Peak Hour Autos	Peak Hour MTs[6]	Peak Hour HTs[6]
1	Northern Project Limits	Northern Westphalia City Limits	NB	65	10,676	1388	638	56	56
			SB				638	56	56
2	Northern Westphalia City Limits	Southern Westphalia City Limits	NB	45	12,073	1569	722	63	63
			SB				722	63	63
3	Southern Westphalia City Limits	Northern Freeburg City Limits	NB	65	9,550	1242	571	50	50
			SB				571	50	50
4	Northern Freeburg City Limits	Southern Freeburg City Limits	NB	45	7,971	1036	477	41	41
			SB				477	41	41
5	Southern Freeburg City Limits	Northern Vienna City Limits	NB	65	8,718	1133	521	45	45
			SB				521	45	45
6	Northern Vienna City Limits	Southern Vienna City Limits	NB	45	9,971	1296	596	52	52
			SB				596	52	52
7	Southern Vienna City Limits	MO Route 68	NB	65	9,960	1295	596	52	52
			SB				596	52	52
8	MO Route 68	Phelps County Line	NB	65	9,584	1246	573	50	50
			SB				573	50	50
9	Phelps County Line	Southern Project Limits	NB	65	9,210	1197	551	48	48
			SB				551	48	48

[1] Source: Missouri DOT. No project-specific 2036 Build volumes available. Use these 2036 volumes for Build and No-Build conditions.

[2] Traffic modeled for the 3 Build Alternatives on a divided highway. It is assumed that 50% of the total volume is represented on each directional (i.e NB & SB) highway section

[3] Note: Towns modeled at 45 mph based on field observations. Rural section posted speeds, as provided by Missouri DOT For future build alternatives, 65 mph used throughout unless the alignment passes through a town on the existing Rt 63 highway alignment.

[4] Source: Missouri DOT, *US 63 Osage, Maries & Phelps Counties 2036 Traffic Volumes.*

[5] Source: Missouri DOT Peak hour is 13% of AADT

[6] Source: Missouri DOT 8% medium trucks; 8% heavy trucks.

APPENDIX D

Two-Dimensional Screening Analysis Impact Count Tables

MoDOT Route 63 TNM (v. 2.5) Noise Screening Impact Counts - HDR Project # 79244

Future NO-BUILD (2036) Noise Impacts

Segment ID	From	To	Residential Noise Impacts	Commercial Noise Impacts
1	Northern Project Limits	Northern Westphalia City Limits	13	2
2	Northern Westphalia City Limits	Southern Westphalia City Limits	5	1
3	Southern Westphalia City Limits	Northern Freeburg City Limits	31	3
4	Northern Freeburg City Limits	Southern Freeburg City Limits	44	2
5	Southern Freeburg City Limits	Northern Vienna City Limits	49	1
6	Northern Vienna City Limits	Southern Vienna City Limits	30	4
7	Southern Vienna City Limits	MO Route 68	30	2
8	MO Route 68	Phelps County Line	26	1
9	Phelps County Line	Southern Project Limits	6	0
		Total	**234**	**16**

Future (2036) BUILD Alternative #1 Noise Impacts

Segment ID	From	To	Residential Noise Impacts	Commercial Noise Impacts
1	Northern Project Limits	Northern Westphalia City Limits	1	1
2	Northern Westphalia City Limits	Southern Westphalia City Limits	5	0
3	Southern Westphalia City Limits	Northern Freeburg City Limits	3	0
4	Northern Freeburg City Limits	Southern Freeburg City Limits	3	0
5	Southern Freeburg City Limits	Northern Vienna City Limits	3	0
6	Northern Vienna City Limits	Southern Vienna City Limits	1	0
7	Southern Vienna City Limits	MO Route 68	8	0
8	MO Route 68	Phelps County Line	10	0
9	Phelps County Line	Southern Project Limits	9	0
		Total	**43**	**1**

Future (2036) BUILD Alternative #2 Noise Impacts

Segment ID	From	To	Residential Noise Impacts	Commercial Noise Impacts
1	Northern Project Limits	Northern Westphalia City Limits	3	0
2	Northern Westphalia City Limits	Southern Westphalia City Limits	14	3
3	Southern Westphalia City Limits	Northern Freeburg City Limits	18	2
4	Northern Freeburg City Limits	Southern Freeburg City Limits	3	0
5	Southern Freeburg City Limits	Northern Vienna City Limits	2	0
6	Northern Vienna City Limits	Southern Vienna City Limits	0	0
7	Southern Vienna City Limits	MO Route 68	4	0
8	MO Route 68	Phelps County Line	24	0
9	Phelps County Line	Southern Project Limits	9	0
		Total	**77**	**5**

Future (2036) BUILD Alternative #3 (Preferred Alternative) Noise Impacts

Segment ID	From	To	Residential Noise Impacts	Commercial Noise Impacts
1	Northern Project Limits	Northern Westphalia City Limits	2	0
2	Northern Westphalia City Limits	Southern Westphalia City Limits	2	0
3	Southern Westphalia City Limits	Northern Freeburg City Limits	10	0
4	Northern Freeburg City Limits	Southern Freeburg City Limits	2	0
5	Southern Freeburg City Limits	Northern Vienna City Limits	0	0
6	Northern Vienna City Limits	Southern Vienna City Limits	0	0
7	Southern Vienna City Limits	MO Route 68	4	0
8	MO Route 68	Phelps County Line	24	0
9	Phelps County Line	Southern Project Limits	9	0
		Total	**53**	**0**